



Form No. 3397-613 Rev A

Count on it.

Operator's Manual

Pro Force® Debris Blower

Model No. 44554—Serial No. 315000001 and Up



This product complies with all relevant European directives; for details, please see the separate product specific Declaration of Conformity (DOC) sheet.

Important: This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land. Other states or federal areas may have similar laws.

⚠ WARNING

CALIFORNIA Proposition 65 Warning

This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects, or reproductive harm.

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

⚠ CAUTION

If a user makes changes or modifications not expressly approved by the party responsible for compliance, they could void the user's authority to operate the equipment.

This spark ignition system complies with Canadian ICES-002.

Introduction

The debris blower is towed behind a ride-on machine which is intended to be used by professional, hired operators in commercial applications. It is primarily designed to use wind power to quickly clear large areas of unwanted debris on well-maintained lawns in parks, golf courses, sports fields, and on commercial grounds.

Read this information carefully to learn how to operate and maintain your product properly and to avoid injury and product damage. You are responsible for operating the product properly and safely.

You may contact Toro directly at www.Toro.com for product and accessory information, help finding a dealer, or to register your product.

Whenever you need service, genuine Toro parts, or additional information, contact an Authorized Service Dealer or Toro Customer Service and have the model and serial numbers of your product ready. **Figure 1** identifies the location of the model and serial numbers on the product. Write the numbers in the space provided.

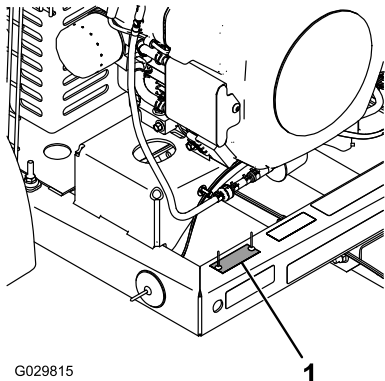


Figure 1

1. Model and serial number location

Model No. _____

Serial No. _____

This manual identifies potential hazards and has safety messages identified by the safety alert symbol (**Figure 2**), which signals a hazard that may cause serious injury or death if you do not follow the recommended precautions.



Figure 2

1. Safety alert symbol

This manual uses 2 words to highlight information. **Important** calls attention to special mechanical information and **Note** emphasizes general information worthy of special attention.

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Safety

Hazard control and accident prevention are dependent upon the awareness, concern, and proper training of the personnel involved in the operation, transport, maintenance, and storage of the machine. Improper use or maintenance of the machine can result in injury or death. To reduce the potential for injury or death, comply with the following safety instructions.

Safe Operating Practices

The following instructions are adapted from ANSI standard B71.4-2012.

Training

- Read the *Operator's Manual* and other training material. If the operator(s) or mechanic(s) cannot read English it is the owner's responsibility to explain this material to them.
- Become familiar with the safe operation of the equipment, operator controls, and safety signs.
- All operators and mechanics should be trained. The owner is responsible for training the users.
- Never let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator.
- The owner/user can prevent and is responsible for accidents or injuries occurring to himself or herself, other people or property.

Preparation

- Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by the manufacturer.
- Wear appropriate clothing including safety glasses and hearing protection. Long hair, loose clothing or jewelry may get tangled in moving parts.
- Inspect the area where the equipment is to be used and remove all objects which can potentially be thrown by the machine.
- Keep all bystanders away from the operating area.
- Keep all shields and safety devices in place. If a shield, safety device, or decal is illegible or damaged, repair or replace it before operation is commenced. Also tighten any loose nuts, bolts, and screws to ensure that the machine is in safe operating condition.
- Check that safety switches and shields are attached and functioning properly. Do not operate unless they are functioning properly.

Safe Handling of Fuels

- To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.
- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only an approved fuel container.
- Never remove fuel cap or add fuel with the engine running.
- Allow engine to cool before refueling.
- Never refuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or on other appliances.
- Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.
- Remove equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a fuel dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace fuel cap and tighten securely.

Operation

- Never operate the debris blower when it is not connected to a tow vehicle.
- Use extreme care when loading or unloading the machine into or off of a trailer or truck.
- Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
- Do not run the engine in or direct the blower nozzle into a confined area without adequate ventilation. Exhaust fumes are hazardous and could possibly be deadly.
- This product may exceed noise levels of 85 dB(A) at the operator position. Hearing protection is recommended for prolonged exposure to reduce the potential of permanent hearing damage.
- Using the machine demands attention. To prevent loss of control:
 - Operate only in daylight or when there is good artificial light.
 - Drive slowly and watch for holes or other hidden hazards.
 - Do not drive close to a sand trap, ditch, creek, or other hazard.
 - Reduce your speed when making sharp turns and when turning on hillsides.

- Avoid sudden starts and stops.
- Before backing up, look to the rear and ensure that no one is behind the machine.
- Watch out for traffic when near or crossing roads. Always yield the right-of-way.
- Stay away from the nozzle opening when the machine is operating. Keep all bystanders away from the nozzle opening and don't direct discharge toward bystanders.
- Do not operate the machine under the influence of alcohol or drugs.
- Lightning can cause severe injury or death. If lightning is seen or thunder is heard in the area, do not operate the machine; seek shelter.
- If the tow vehicle engine stalls or the machine loses headway and cannot make it to the top of a slope, do not turn the machine around. Always back the tow vehicle slowly straight down the slope.
- When a person or pet appears in or near the operating area, **stop operation**. Do not resume operation until the area is cleared.
- Do not touch the engine or muffler while the engine is running or soon after it is stopped.

Tethered Remote Operation

- Read and follow all instructions.
- Failure to abide by Safety Precautions may result in equipment failure, loss of authority to operate the equipment, and personal injury.
- Use and maintain proper wiring. Follow equipment manufacturer instructions. Improper, loose, and frayed wiring can cause system failure, equipment damage, and intermittent operation.
- Changes or modifications made to equipment not expressly approved by the manufacturer will void the warranty.
- Owner/operators of the equipment must abide by all applicable federal, state, and local laws concerning installation and operation of the equipment. Failure to comply could result in penalties and could void user authority to operate the equipment.
- Make sure that the machinery and surrounding area is clear before operating. Do not activate the remote control system until certain that it is safe to do so.
- Turn off the tethered remote and remove power from the base unit before attempting any maintenance. This will prevent accidental operation of the controlled machinery.
- Power can be removed from the tethered remote by detaching the 2 connectors from the wire harness, or by removing the source power from the circuit.
- Use a damp cloth to keep units clean. Remove mud, concrete, dirt, etc. after use to prevent obstructing or clogging the buttons, levers, wiring, and switches.
- Do not allow liquid to enter the tethered control assembly. Do not use high-pressure equipment to clean the remote control or base unit.
- Operate and store units only within the specified operation and storage temperatures defined in the Specifications section of this document.

Maintenance and Storage

- Let engine cool before storing and do not store near flame.
- Shut off fuel while storing or transporting. Do not store fuel near flames or drain indoors.
- Park machine on level ground. Never allow untrained personnel to service machine.
- Use jack stands to support components when required.
- Disconnect battery or remove spark plug wires before making any repairs. Disconnect the negative terminal first and the positive last. Reconnect positive first and negative last.
- Remove the key from the ignition switch to prevent accidental starting of the engine when servicing, adjusting, or storing the machine.
- Perform only those maintenance instructions described in this manual. If major repairs are ever needed or assistance is desired, contact an Authorized Toro Distributor.
- To reduce a potential fire hazard, keep the engine free of excessive grease, grass, leaves, and accumulations of dirt. Never wash a warm engine or any electrical parts with water.
- Be sure that the machine is in safe operating condition by keeping nuts, bolts, and screws tight. Check the fan shaft bearing mounting bolts and nuts frequently to be sure that they are tightened to specification.
- If the engine must be running to perform a maintenance adjustment, keep hands, feet, clothing, and other parts of the body away from the fan and other moving parts.
- Do not over speed the engine by changing the governor settings. To be sure of safety and accuracy, have an Authorized Toro Distributor check the maximum engine speed with a tachometer.
- The engine must be shut off before checking the oil or adding oil to the crankcase.
- Keep hands and feet away from moving parts. If possible, do not make adjustments with the engine running.
- Charge batteries in an open well ventilated area, away from spark and flames. Unplug charger before connecting or disconnecting from battery. Wear protective clothing and use insulated tools.
- Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.
- Use only Toro approved attachments. Warranty may be voided if used with unapproved attachments.

Hauling

- Use care when loading or unloading the machine into a trailer or truck.
- Use full width ramps for loading machine into trailer or truck.
- Tie the machine down securely using straps, chains, cable, or ropes. Both front and rear straps should be directed down and outward from the machine.

Safety and Instructional Decals



Safety decals and instructions are easily visible to the operator and are located near any area of potential danger. Replace any decal that is damaged or lost.



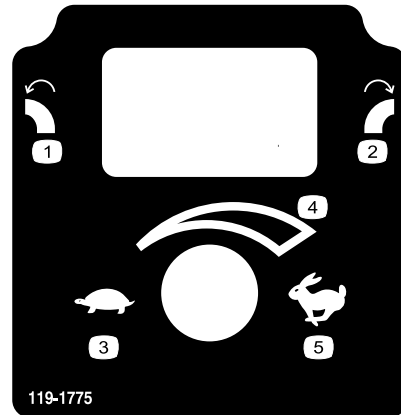
115-5105

1. Warning—read the *Operator's Manual*.
2. Warning—do not operate this machine unless you are trained.
3. Warning—stop the engine; remove the ignition key and read the instructions before servicing or performing maintenance.
4. Thrown object hazard—keep bystanders a safe distance from the machine.
5. Warning—stay away from moving parts; keep all guards in place.
6. Warning—do not start the engine when machine is disconnected from the tow vehicle, hitch the machine to the tow vehicle before starting the engine.



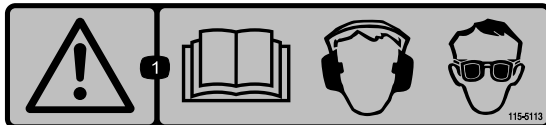
115-5106

1. Warning—read the *Operator's Manual*.
2. Thrown object hazard—keep bystanders a safe distance from the machine.
3. Cutting/dismemberment hazard; hand—stay away from moving parts; keep all guards and shields in place.



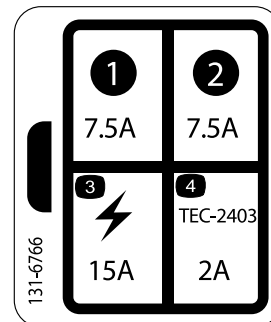
119-1775

1. Rotate nozzle left
2. Rotate nozzle right
3. Slow
4. Variable speed
5. Fast



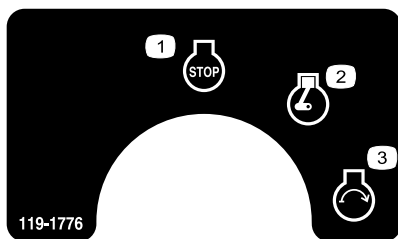
115-5113

1. Warning—read the *Operator's Manual*, wear hearing and eye protection.



131-6766

1. 7.5A
2. 7.5A
3. Electrical accessory—15A
4. TEC-2403—2A



119-1776

1. Engine—stop
2. Engine—run
3. Engine—start

Setup

Loose Parts

Use the chart below to verify that all parts have been shipped.

Procedure	Description	Qty.	Use
1	Petroleum jelly (not supplied)	A/R	Connect the battery.
2	Debris-blower assembly Hitch Bolt (3/8 x 3 inches) Flange nut (3/8 inch) Hitch clevis Bolt (5/8 x 4-1/2 inch) Locknut (5/8 inch)	1 1 2 2 1 2 2	Mount the hitch to the debris blower.
3	Hitch pin Clevis	1 1	Connect the blower to the tow vehicle.

Media and Additional Parts

Description	Qty.	Use
Parts Catalog	1	Read before operating.
Operator's Manual	1	
Engine manual	1	Use to reference engine operation and maintenance.
Operator training material	1	View before operating the machine.
Certificate of compliance	1	Ensure CE compliance.

Note: Determine the left and right sides of the machine from the normal operating position.

1

Connecting the Battery

Parts needed for this procedure:

A/R	Petroleum jelly (not supplied)
-----	--------------------------------

Procedure

1. Remove the clips securing the battery cover to the battery box ([Figure 3](#)).

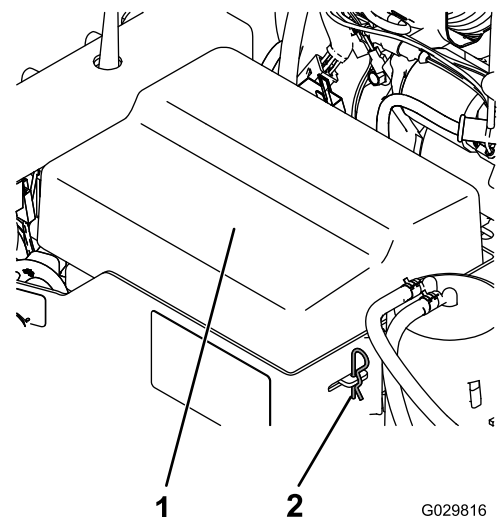


Figure 3

G029816

1. Battery cover

2. Battery clip

⚠ DANGER

Battery electrolyte contains sulfuric acid which is a deadly poison and causes severe burns.

- Do not drink electrolyte and avoid contact with skin, eyes or clothing. Wear safety glasses to shield your eyes and rubber gloves to protect your hands.
- Fill the battery where clean water is always available for flushing the skin.

2. Attach the positive cable (red cable) to the positive (+) terminal.

WARNING

CALIFORNIA Proposition 65 Warning

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm.
Wash hands after handling.

3. Attach the negative cable (black cable) to the negative (-) terminal of the battery.
4. Coat the terminals and mounting fasteners with petroleum jelly to prevent corrosion.
5. Install the battery cover and secure with the clips.

2

Mounting the Hitch to the Debris Blower

Parts needed for this procedure:

1	Debris-blower assembly
1	Hitch
2	Bolt (3/8 x 3 inches)
2	Flange nut (3/8 inch)
1	Hitch clevis
2	Bolt (5/8 x 4-1/2 inch)
2	Locknut (5/8 inch)

Procedure

1. Position the debris blower on a flat, level surface.

2. Insert the hitch tube into the frame brackets (Figure 4).

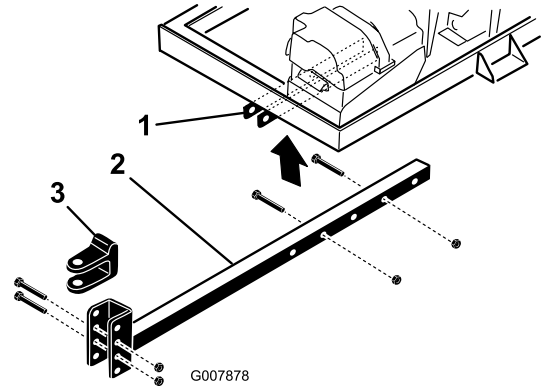


Figure 4

1. Frame brackets
2. Hitch tube
3. Hitch clevis

3. Secure the tube to the frame with 2 bolts (3/8 x 3 inches) and flange nuts (3/8 inch) and torque to 40 N-m (30 ft-lb).

Note: You can rotate the hitch tube 180 degrees to accommodate different hitch heights.

3

Connecting the Debris Blower to the Tow Vehicle

Parts needed for this procedure:

1	Hitch pin
1	Clevis

Procedure

1. Back the tow vehicle up to the blower.
2. Adjust the blower hitch clevis to the same level as tow vehicle hitch as follows:
 - Set the hitch tube on a jack stand to keep it parallel to the ground.
 - Remove the bolts and locknuts securing hitch clevis (Figure 4) to hitch tube.
 - Raise or lower the hitch clevis to the position approximately level with the tow-vehicle hitch.
 - Secure the clevis to the hitch with the bolts and locknuts previously removed and torque to 203 N-m (150 ft-lb). Make sure debris blower frame is parallel with the ground.
3. Adjust the hitch tube length to assure the blower does not contact the tow vehicle when turning as follows:

- Remove the bolts and nuts securing the hitch tube to frame brackets (Figure 4).
 - Secure the tube to the frame with the bolts and flange nuts.
4. Connect the blower clevis hitch to the tow-vehicle hitch with the hitch pin and clevis (Figure 5).

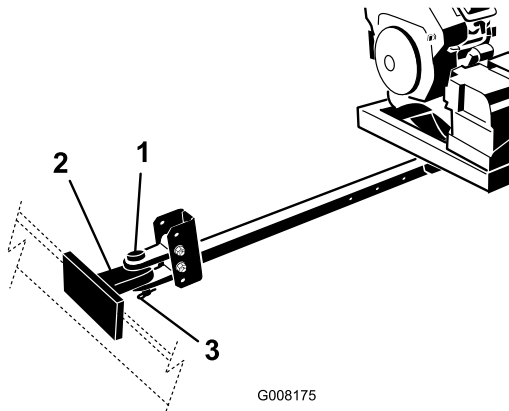


Figure 5

- | | |
|----------------------|-----------|
| 1. Hitch pin | 3. Clevis |
| 2. Tow vehicle hitch | |

Product Overview

Controls

Nozzle-Direction Button

Press the button to rotate the nozzle to the desired direction (Figure 6).

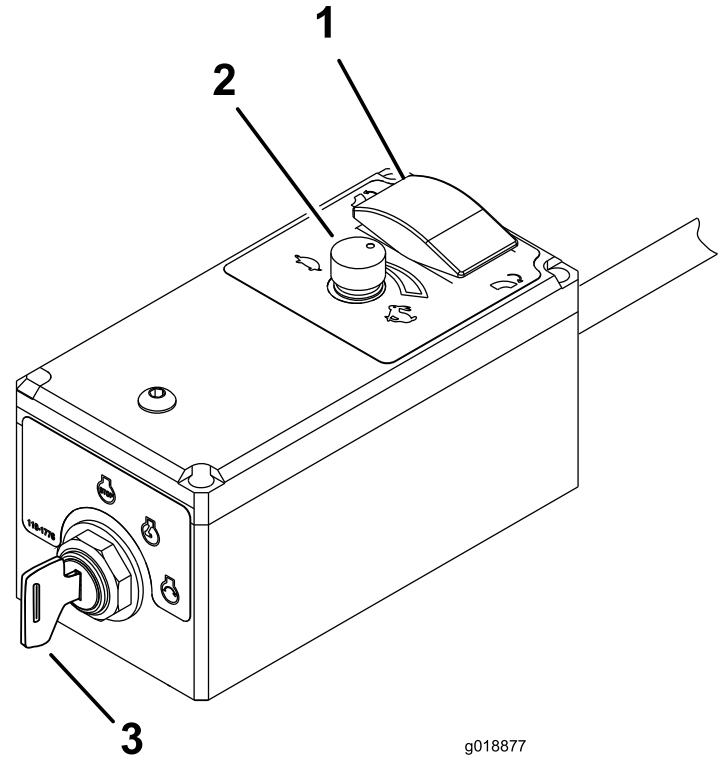


Figure 6

- | | |
|----------------------------|--------------------|
| 1. NOZZLE-DIRECTION button | 3. Ignition switch |
| 2. Throttle/Engine speed | |

Throttle/Engine Speed

Rotate the knob to FAST (rabbit) or SLOW (turtle) to increase or decrease the speed of the engine (Figure 6).

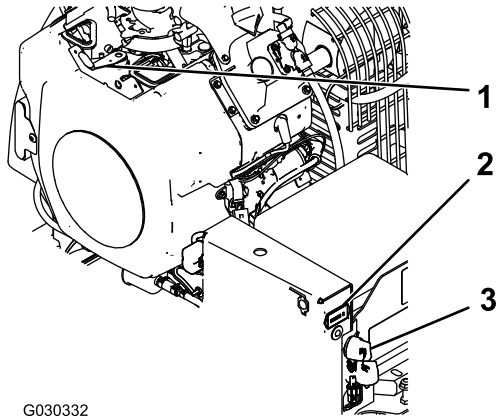
Remote Ignition Switch

The ignition switch which is used to start and stop the engine, has three positions: OFF, RUN, and START. Rotate the key clockwise to the START position to engage the starter motor. Release the key when the engine starts. The key will move

automatically to the RUN position. To shut engine off, rotate the key counterclockwise to the OFF position (Figure 6).

Choke Control

To start a cold engine, move the choke control lever (Figure 7) to the ON position.



G030332

Figure 7

- | | |
|------------------|--------------------|
| 1. Choke control | 3. Ignition switch |
| 2. Hour meter | |

Hour Meter

The hour meter (Figure 7) indicates the total hours of machine operation.

Operation

Note: Determine the left and right sides of the machine from the normal operating position.

Adding Fuel

- **Fuel tank capacity:** 18.9 L (5 US gallons)
- **Recommended Fuel:**
 - For best results, use only clean, fresh (less than 30 days old), unleaded gasoline with an octane rating of 87 or higher ((R+M)/2 rating method).
 - Ethanol: Gasoline with up to 10% ethanol (gasohol) or 15% MTBE (methyl tertiary butyl ether) by volume is acceptable. Ethanol and MTBE are not the same. Gasoline with 15% ethanol (E15) by volume is not approved for use. Never use gasoline that contains more than 10% ethanol by volume, such as E15 (contains 15% ethanol), E20 (contains 20% ethanol), or E85 (contains up to 85% ethanol). Using unapproved gasoline may cause performance problems and/or engine damage which may not be covered under warranty.
 - Do not use gasoline containing methanol.
 - Do not store fuel either in the fuel tank or fuel containers over the winter unless a fuel stabilizer is used.
 - Do not add oil to gasoline.

Important: Do not use fuel additives other than a fuel stabilizer/conditioner. Do not use fuel stabilizers with an alcohol base, such as ethanol, methanol, or isopropanol.

⚠ DANGER

In certain conditions, gasoline is extremely flammable and highly explosive. A fire or explosion from gasoline can burn you and others and can damage property.

- Fill the fuel tank outdoors, in an open area, when the engine is cold. Wipe up any gasoline that spills.
- Never fill the fuel tank inside an enclosed trailer.
- Do not fill the fuel tank completely full. Add gasoline to the fuel tank until the level is 6 to 13 mm (1/4 to 1/2 inch) below the bottom of the filler neck. This empty space in the tank allows gasoline to expand.
- Never smoke when handling gasoline, and stay away from an open flame or where gasoline fumes may be ignited by a spark.
- Store gasoline in an approved container and keep it out of the reach of children. Never buy more than a 30-day supply of gasoline.
- Do not operate without entire exhaust system in place and in proper working condition.

⚠ DANGER

In certain conditions during fueling, static electricity can be released causing a spark which can ignite the gasoline vapors. A fire or explosion from gasoline can burn you and others and can damage property.

- Always place gasoline containers on the ground away from your vehicle before filling.
- Do not fill gasoline containers inside a vehicle or on a truck or trailer bed because interior carpets or plastic truck bed liners may insulate the container and slow the loss of any static charge.
- When practical, remove gas-powered equipment from the truck or trailer and refuel the equipment with its wheels on the ground.
- If this is not possible, then refuel such equipment on a truck or trailer from a portable container, rather than from a gasoline dispenser nozzle.
- If a gasoline dispenser nozzle must be used, keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.

⚠ WARNING

Gasoline is harmful or fatal if swallowed. Long-term exposure to vapors can cause serious injury and illness.

- Avoid prolonged breathing of vapors.
- Keep your face away from the nozzle and fuel tank or conditioner opening.
- Keep gasoline away from your eyes and skin.

Using Stabilizer/Conditioner

Use a fuel stabilizer/conditioner in the machine to provide the following benefits:

- Keeps gasoline fresh during storage of 90 days or less. For longer storage it is recommended that the fuel tank be drained.
- Cleans the engine while it runs
- Eliminates gum-like varnish buildup in the fuel system, which causes hard starting

Important: Do not use fuel additives containing methanol or ethanol.

Add the correct amount of gas stabilizer/conditioner to the gas.

Note: A fuel stabilizer/conditioner is most effective when mixed with fresh gasoline. To minimize the chance of varnish deposits in the fuel system, use fuel stabilizer at all times.

Filling the Fuel Tank

1. Shut the engine off.
2. Clean the area around the fuel tank cap and remove the cap (Figure 8).

Note: The fuel tank cap contains a gauge which shows the fuel level.

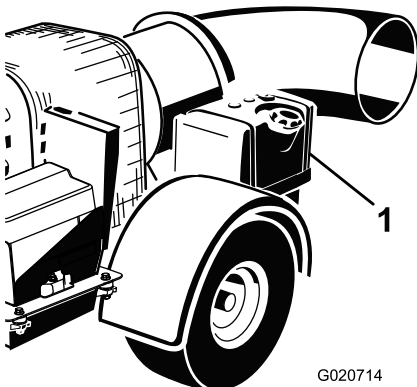


Figure 8

1. Fuel tank

3. Add unleaded regular gasoline to the fuel tank, until the level is 6 mm to 13 mm (1/4 to 1/2 inch) below the bottom of the filler neck.

Note: This space in the tank allows gasoline to expand. Do not fill the fuel tanks completely full.

4. Install fuel tank cap securely.
5. Wipe up any gasoline that may have spilled.

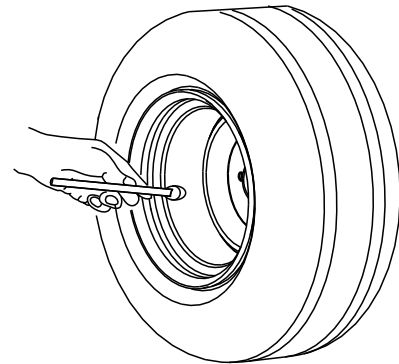
Checking the Engine-Oil Level

Before you start the engine and use the machine, check the oil level in the engine crankcase; refer to [Checking the Engine Oil Level](#) (page 20).

Checking the Tire Pressure

Check the tire pressure (Figure 9).

The correct tire pressure is 96.5 kPa (14 psi).



G001055

Figure 9

Checking the Torque of the Wheel Lug Nuts

Service Interval: After the first 10 hours

Check the torque of the wheel lug nuts initially and after the first 10 hours of operation.

⚠ WARNING

Failure to maintain proper torque could result in failure or loss of wheel and could result in personal injury. Torque wheel lug nuts to 95 to 122 N-m (70 to 90 ft-lb)

Starting and Stopping the Engine

Starting the Engine

⚠ WARNING

Rotating parts can cause serious personal injury.

- Keep hands and feet away from the machine when it is running.
- Keep hands, feet, hair, and clothing away from all moving parts to prevent injury.
- Never operate the machine with covers, shrouds, or guards removed.

1. The blower must be attached to the tow vehicle before it can be started.
2. Move the choke control to the ON position before starting a cold engine.

Note: A warm or hot engine may **not** require choking. After the engine starts, move the choke control to the OFF position.

3. Rotate the engine ignition key clockwise to the START position to start the engine; release the key when the engine starts (Figure 10).

Note: If the key was left in the RUN position for an extended time, move the key to the OFF position before proceeding to the starting procedure.

Important: Do not engage starter for more than 10 seconds at a time. If engine fails to start allow 10 second cool-down period between attempts. Failure to follow these instructions can burn out starter motor.

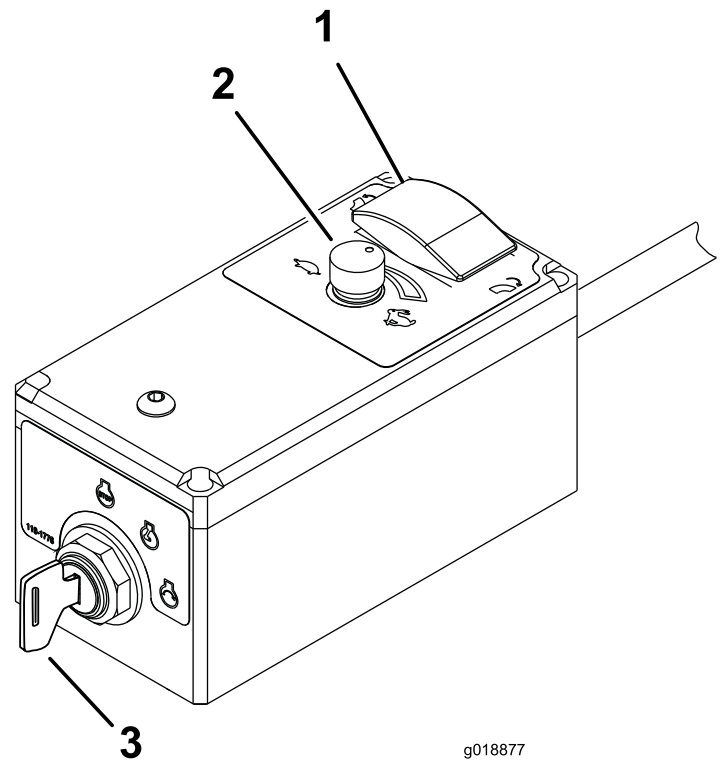


Figure 10

1. NOZZLE DIRECTION button
2. Throttle/Engine speed
3. Ignition switch

4. After the engine starts, move the choke control to the OFF position. If the engine stalls or hesitates, move the choke back to the RUN position for a few seconds, then set the engine speed to the desired setting. Repeat this as required.

Stopping the Engine

1. Decrease the engine speed to 3/4 throttle.
2. Rotate the remote ignition key to the OFF position.
3. If leaving the machine, rotate the engine key to the OFF position and remove it from the switch (Figure 10).

Adjusting the Nozzle Direction

Press the nozzle direction button to rotate the nozzle to the desired direction (Figure 11).

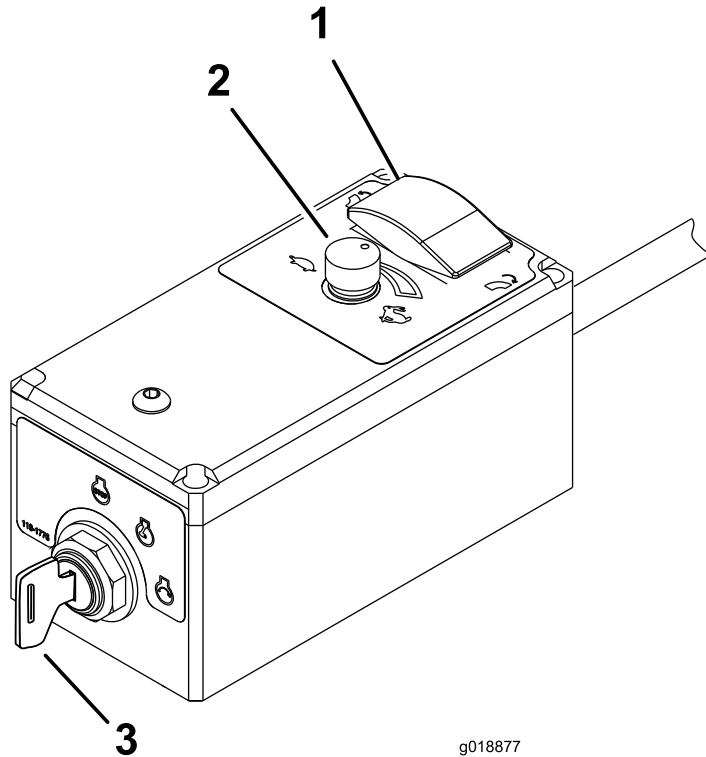


Figure 11

1. Nozzle direction button 3. Ignition switch
2. Throttle/Engine speed

⚠ WARNING

Discharged air has considerable force and could cause injury or loss of footing.

- Stay away from nozzle opening when machine is operating.
- Keep bystanders away from nozzle opening when machine is running.
- Never operate the debris blower when it is not connected to a tow vehicle.
- Practice operating the blower. Blow the same direction that the wind is blowing to prevent material from blowing back into the cleared area.
- Be alert, slow down, and use caution when making turns. Look behind and to the side before changing directions.
- Be aware of the blower nozzle direction and do not point it at anyone.
- Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.
- Do not run the engine in or direct the blower nozzle into a confined area without adequate ventilation. Exhaust fumes are hazardous and could possibly be deadly.
- Run the engine at full throttle when operating.
- Adjust the nozzle opening so it blows under the debris.
- Use caution when blowing around newly planted sod as the force of the air could disrupt the grass.
- Do not use the machine on highways.
- If the tow vehicle engine stalls or the machine loses headway and cannot make it to the top of a slope, do not turn the machine around. Always back the tow vehicle slowly straight down the slope.
- **Do not take an injury risk!** When a person or pet appears unexpectedly in or near the operating area, **stop operation.** Careless operation, combined with terrain angles, ricochets, or improperly positioned guards can lead to thrown object injuries. Do not resume operation until the area is cleared.
- Do not exceed 32 km/h (20 mph) when transporting blower.
- Do not touch the engine or muffler while the engine is running or soon after it is stopped. These areas could be hot enough to cause a burn.

Important: Raise the nozzle before transporting the blower. If the nozzle is left in the down position during transport, the nozzle may contact the ground and damage to the nozzle may occur.

Operating Tips

⚠ DANGER

Tip over can cause serious injury or death.

- Never operate on steep slopes.
- Operate on slopes up and down, never across the face.
- When going uphill or downhill, do not stop or start suddenly.
- Stay alert for holes in the terrain or other hidden hazards. To avoid tipping or loss of control, do not drive close to a ditch, creek or drop off.
- If the tow vehicle stops while going uphill, back slowly downhill. Do not attempt to turn.

Maintenance

Recommended Maintenance Schedule(s)

Maintenance Service Interval	Maintenance Procedure
After the first 8 hours	• Check the condition and the tension of the belt.
After the first 10 hours	• Check the torque of the wheel lug nuts.
Before each use or daily	• Check the engine oil level. • Clean the engine screen and the oil cooler. • Check the nozzle clamp and the nozzle guides.
Every 25 hours	• Clean the air filter element for damage (more frequently if conditions are dusty or sandy).
Every 50 hours	• Check the condition and the tension of the belt.
Every 100 hours	• Replace the air filter element (more frequently if conditions are dusty or sandy). • Change the engine oil.
Every 200 hours	• Replace the carbon-canister air filter (Service more frequently if conditions are extremely dusty or sandy). • Replace the carbon-canister purge-line filter. • Replace the oil filter. • Check the spark plugs.
Every 500 hours	• Replace the fuel filter.

Daily Maintenance Checklist

Duplicate this page for routine use.

Maintenance Check Item	For the week of:						
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
Check the instrument operation							
Check the fuel level.							
Check the engine oil level.							
Clean the engine air cooling fins.							
Inspect the air filter pre-cleaner.							
Check any unusual engine noises.							
Check for fluid leaks.							
Check the tire pressure.							
Check nozzle mounting clamp torque							
Touch-up damaged paint.							

Notation for Areas of Concern		
Inspection performed by:		
Item	Date	Information

Servicing the Air Cleaner

Service Interval: Every 25 hours—Clean the air filter element for damage (more frequently if conditions are dusty or sandy).

Every 100 hours—Replace the air filter element (more frequently if conditions are dusty or sandy).

Checking the Air Filter

1. Check the air cleaner body for damage, which could possibly cause an air leak. Ensure that the cover is sealing around the air cleaner body ([Figure 12](#)).

Note: Replace a damaged air-cleaner cover or housing.

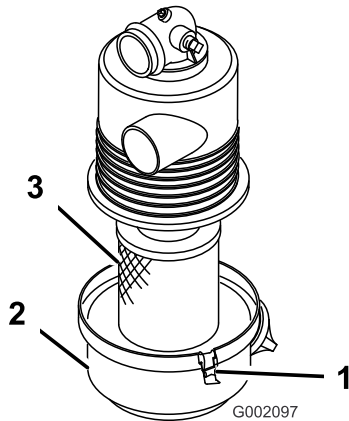


Figure 12

1. Latch
2. Air-filter housing
3. Air-filter element

3. Install the new air filter; refer to [Installing the Air Filter \(page 18\)](#).

Installing the Air Filter

Important: To prevent engine damage, always operate the engine with the complete air cleaner assembly installed.

Important: Do not use a damaged element.

Note: Cleaning of the used air-filter element is not recommended due to the possibility of damage to the filter media.

1. Clean the dirt ejection port located on the air-filter cover.
2. Remove the rubber outlet valve from the cover, clean the cavity, and replace the outlet valve.
3. Insert the air-filter element into air-filter housing ([Figure 12](#)).

Note: Ensure that the filter is sealed properly by applying pressure to the outer rim of the filter when installing it. Do not press on the flexible center of the filter.

4. Align the air-cleaner cover with the air-cleaner housing ([Figure 12](#)).
5. Secure the cover to the housing with the latches ([Figure 12](#)).

2. Release the latches securing the air-filter cover to the air-filter housing ([Figure 12](#)).
3. Separate the air-filter cover from the air-filter housing, and clean the inside of the cover ([Figure 12](#)).
4. Gently slide the air-filter element out of the filter housing.

Note: To reduce the amount of dust dislodged, avoid knocking the filter against the air-filter housing.

5. Inspect the air-filter element.
 - If the air-filter element is clean, install the filter element, refer to [Installing the Air Filter \(page 18\)](#).
 - If the air-filter element is damaged, replace the filter element; refer to [Replacing the Air Filter \(page 18\)](#).

Replacing the Air Filter

1. Remove the air-filter element; refer to [Checking the Air Filter \(page 18\)](#).
2. Inspect the new filter for shipping damage.

Note: Check the sealing end of the filter.

Important: Do not install a damaged filter.

Servicing the Carbon Canister

Replacing the Carbon-Canister Air Filter

Service Interval: Every 200 hours

- 1. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 2. Remove and discard the carbon canister air filter (Figure 13).

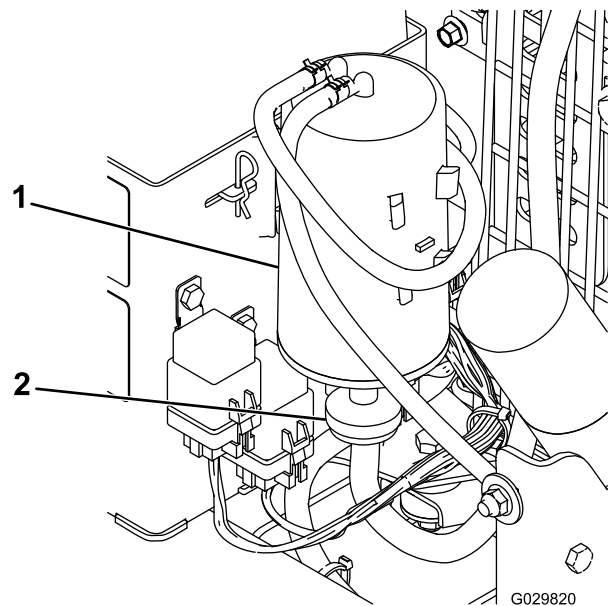


Figure 13

- 1. Carbon canister
- 2. Carbon-canister air filter

- 3. Install the new air filter.

Replacing the Carbon-Canister Purge-Line Filter

Service Interval: Every 200 hours

Note: Check the purge-line filter occasionally for dirt. If the filter appears to be dirty, replace it.

- 1. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
- 2. Move the spring-type hose clamps on both sides of the carbon canister purge-line filter away from the filter (Figure 14).

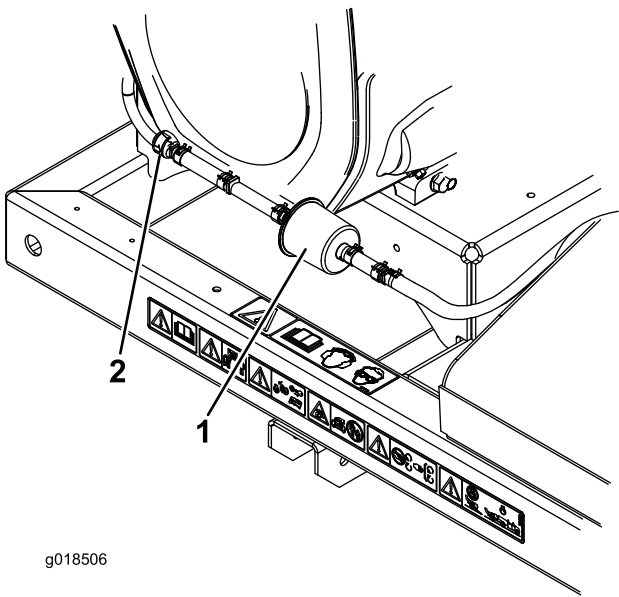


Figure 14

- 1. Carbon canister purge-line
 - 2. Check valve filter
-
- 3. Remove and discard the carbon filter (Figure 14).
 - 4. Install a new filter into the hose with the arrow on the filter pointing towards the check valve and secure it with the hose clamps (Figure 14).

Servicing the Engine Oil

Note: Change the oil more frequently when the operating conditions are extremely dusty or sandy.

Oil Type: Detergent oil (API service SG, SH, SJ or higher)

Crankcase Capacity (with filter): 2 L (67 oz)

Viscosity: See the table below.

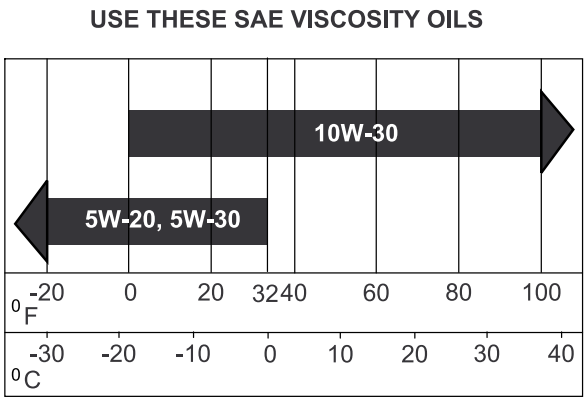


Figure 15

Checking the Engine Oil Level

Service Interval: Before each use or daily

Note: The best time to check the engine oil is when the engine is cool before it has been started for the day. If it has already been run, allow the oil to drain back down to the sump for at least 10 minutes before checking. If the oil level is at or below the ADD mark on the dipstick, add oil to bring the oil level to the FULL mark. **Do not overfill.** If the oil level is between the FULL and ADD marks, no oil addition is required.

1. Park the machine on a level surface.
2. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
3. Clean around the oil dipstick (Figure 16) so that dirt cannot fall into the filler hole and damage the engine.

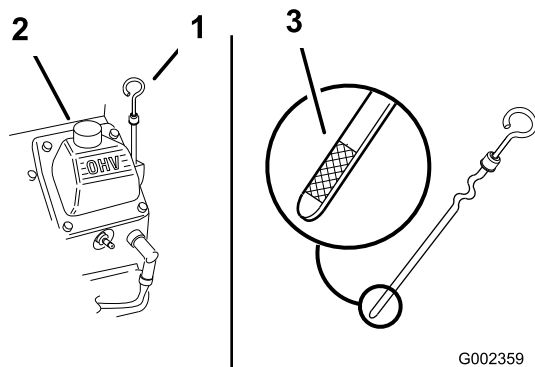


Figure 16

1. Oil dipstick
2. Filler tube

4. Unscrew the oil dipstick and wipe the end clean (Figure 16).
5. Slide the oil dipstick fully into the filler tube, but do not thread it onto the tube (Figure 16).
6. Pull the dipstick out and look at the metal end. If the oil level is low, slowly pour only enough oil into the filler tube to raise the level to the FULL mark.

Important: Do not overfill the crankcase with oil and run the engine. Engine damage can result.

Changing the Oil

Service Interval: Every 100 hours

1. Start the engine and let it run 5 minutes. This warms the oil so that it drains better.
2. Park the machine so that the drain side is slightly lower than the opposite side to ensure that the oil drains completely.
3. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
4. Place a pan below the drain. Rotate the oil drain valve to allow the oil to drain (Figure 17).

Note: A hose may be inserted onto the drain valve to direct the oil flow. The hose is not included with the machine.

5. When the oil has drained completely, close the drain valve.

Note: Dispose of the used oil at a recycling center.

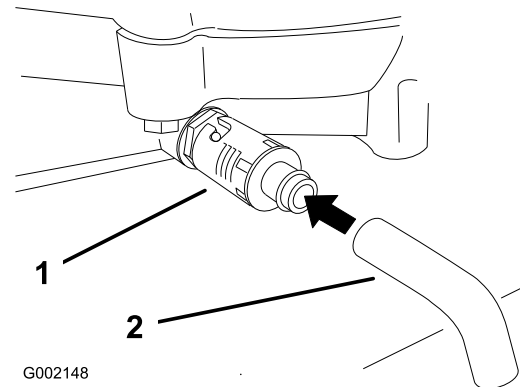


Figure 17

1. Oil drain valve
2. Oil drain hose (Not included)

6. Slowly pour approximately 80% of the specified oil into the filler tube (Figure 16).
7. Check the oil level; refer to [Checking the Engine Oil Level](#) (page 20).
8. Slowly add the additional oil to bring it to the Full mark.

Changing the Oil Filter

Service Interval: Every 200 hours

Note: Change the oil filter more frequently when the operating conditions are extremely dusty or sandy.

1. Drain the oil from the engine; refer to [Changing the Oil](#) (page 20).
2. Remove the old filter and wipe the filler adapter gasket surface (Figure 18).

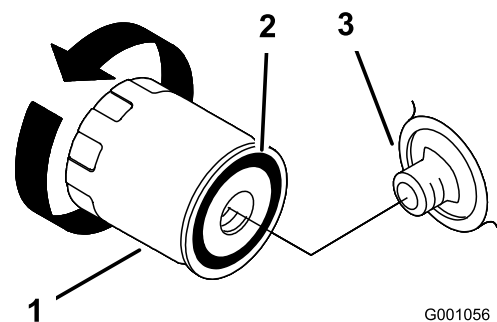


Figure 18

1. Oil filter
2. Adapter gasket
3. Adapter

3. Apply a thin coat of new oil to the rubber gasket on the replacement filter (Figure 18).
4. Install the replacement oil filter to the filter adapter, turn the oil filter clockwise until the rubber gasket contacts the filter adapter, then tighten the filter an additional 2/3 to 1 turn (Figure 18).
5. Fill the crankcase with the proper type of new oil; refer to [Servicing the Engine Oil](#) (page 19).
6. Run the engine for about 3 minutes, stop the engine, and check for oil leaks around the oil filter.
7. Check the engine oil level and add oil if needed.

Servicing the Spark Plugs

Ensure that the air gap between the center and side electrodes is correct before installing the spark plugs. Use a spark plug wrench for removing and installing the spark plugs and a gapping tool/feeler gauge to check and adjust the air gap. Install new sparks plugs if necessary.

Type: Champion® RC12YC, Champion® Platinum 3071 or equivalent

Air Gap: 0.76 mm (0.030 inch)

Checking the Spark Plugs

Service Interval: Every 200 hours

1. Look at the center of the spark plugs (Figure 19). If you see light brown or gray on the insulator, the engine is operating properly. A black coating on the insulator usually means that the air cleaner is dirty.

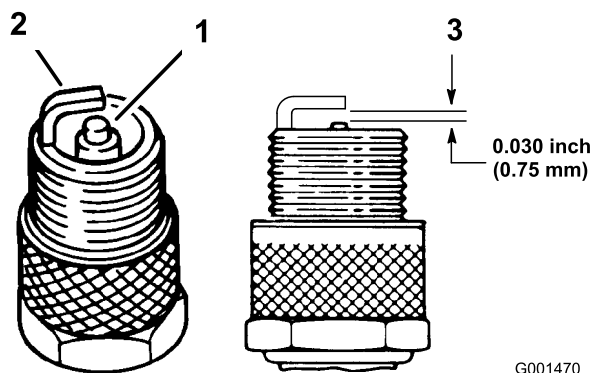


Figure 19

1. Center electrode insulator
2. Side electrode
3. Air gap (not to scale)

Important: Always replace a spark plug when it has a black coating, worn electrodes, an oily film, or cracks.

2. Check the gap between the center and side electrodes (Figure 19). Bend the side electrode (Figure 19) if the gap is not correct.

Removing the Spark Plugs

1. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
2. Disconnect the wires from the spark plugs (Figure 20).

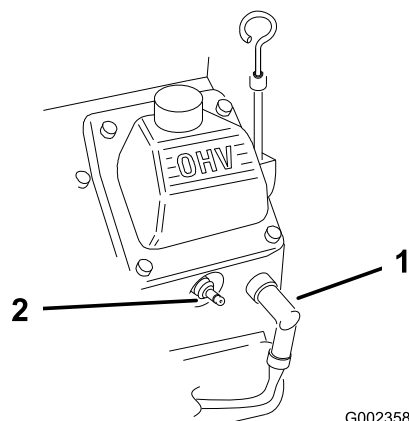


Figure 20

1. Spark-plug wire
2. Spark plug

3. Clean around the spark plugs to prevent dirt from falling into the engine and potentially causing damage.
4. Remove the spark plugs and the metal washers.

Installing the Spark Plugs

1. Install the spark plugs and the metal washer. Ensure that the air gap is set correctly.
2. Tighten the spark plugs to 24.4 to 29.8 N-m (18 to 22 ft-lb).
3. Connect the wires to the spark plugs (Figure 19).

Replacing the Fuel Filter

Service Interval: Every 500 hours

Never install a dirty filter if it is removed from the fuel line.

1. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
2. Allow the machine to cool down.
3. Squeeze the ends of the hose clamps together and slide them away from the filter (Figure 21).

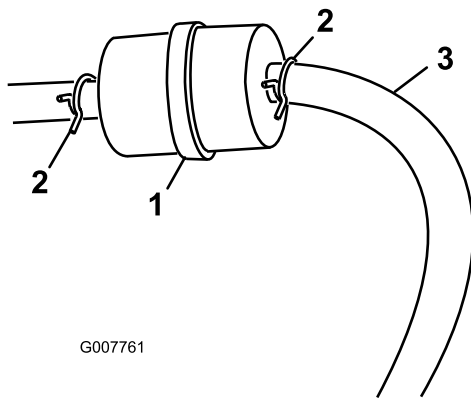


Figure 21

1. Fuel filter
2. Hose clamp

4. Remove the filter from the fuel lines.
5. Install a new filter and move the hose clamps close to the filter (Figure 21).

Servicing the Fuel Tank

⚠ DANGER

In certain conditions, gasoline is extremely flammable and highly explosive. A fire or explosion from gasoline can burn you and others and can damage property.

- Drain gasoline from the fuel tank when the engine is cold. Do this outdoors in an open area. Wipe up any gasoline that spills.
 - Never smoke when draining gasoline, and stay away from an open flame or where a spark may ignite the gasoline fumes.
1. Park the machine on a level surface to ensure that the fuel tanks drain completely.
 2. Stop the engine, remove the key, and wait for all moving parts to stop before leaving the operating position.
 3. Loosen the hose clamp at the fuel filter and slide it up the fuel line away from the fuel filter (Figure 21).
 4. Disconnect the fuel line from the fuel filter (Figure 21).

Note: Allow gasoline to drain into a fuel container can or drain pan (Figure 21).

Note: This is the best time to install a new fuel filter because the fuel tank is empty.

5. Install the fuel line onto the fuel filter. Slide the hose clamp close to the fuel filter to secure the fuel line (Figure 21).

Cleaning the Engine Screen and the Oil Cooler

Service Interval: Before each use or daily

Before each use, check and clean the engine screen and oil cooler. Remove any build up of grass, dirt or other debris from the oil cooler and engine screen (Figure 22).

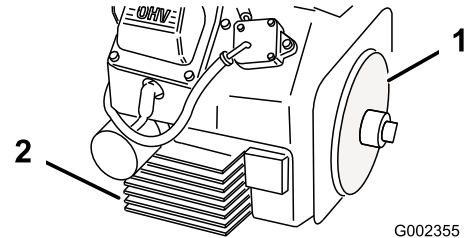


Figure 22

1. Engine screen
2. Oil cooler

Checking the Nozzle

Service Interval: Before each use or daily

Checking the Nozzle Clamp

Check the nozzle clamp (Figure 23) daily to assure it is tight. If the nozzle is dragged over obstacles or through low areas in the terrain it could be knocked loose from the clamp. Torque the clamp fasteners to 5.1-5.7 N-m (45-50 in-lb).

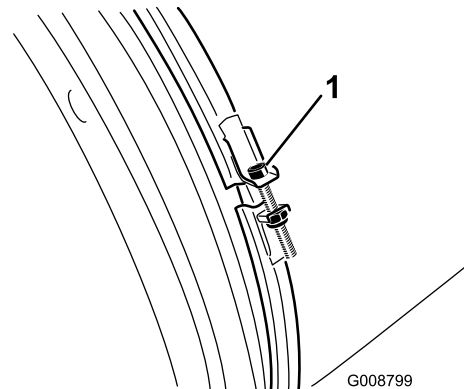


Figure 23

1. Nozzle clamp

Cleaning the Nozzle Guides

Check and remove any grass, dirt or debris buildup around and in between the nozzle guides (Figure 24). If the nozzle guides are not kept free of debris, the nozzle may not rotate freely which could cause the motor to stall.

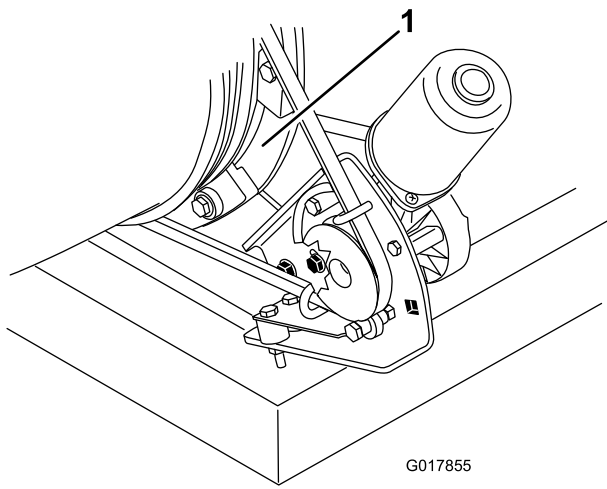


Figure 24

1. Nozzle guides

Adjusting the Belt

Service Interval: After the first 8 hours

Every 50 hours

If the belt slips when changing the direction of the nozzle, an adjustment to the belt is required.

1. Loosen the bolts securing the pulley mounting bracket to the blower frame (Figure 25).
2. Position a torque wrench into the pulley mounting bracket (Figure 25).
3. Pivot the pulley mounting bracket away from the nozzle until the torque wrench reads 22.6 to 26.0 N-m (200 to 230 in-lb) (Figure 25).
4. Tighten the mounting bolts.

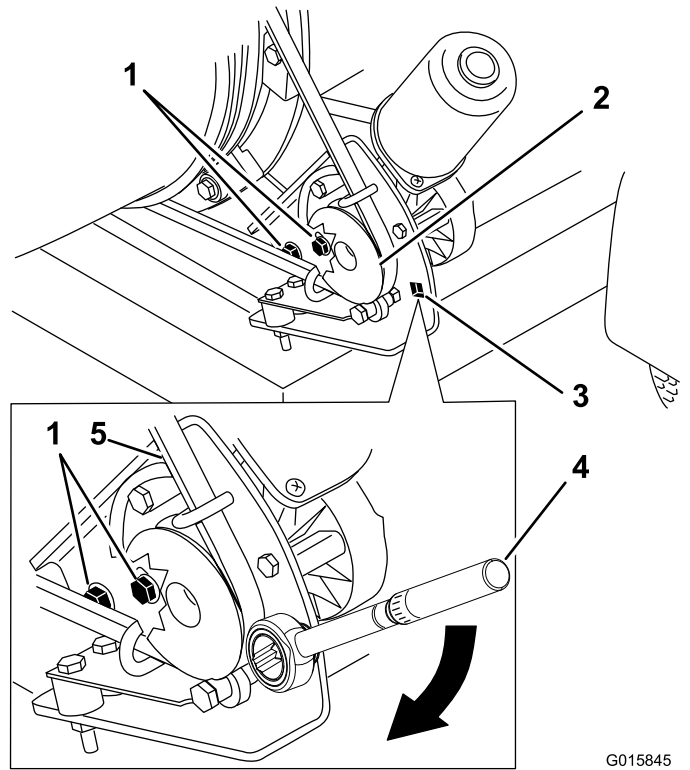


Figure 25

1. Mounting bolts
2. Pulley
3. Hole for torque wrench
4. Torque wrench in pulley mounting bracket [22.6 to 26.0 N-m (200 to 230 in-lb)]
5. Belt

Electrical Maintenance

Important: Before welding on the machine, disconnect the controller and the negative cable from the battery to prevent damage to the electrical system.

Fuses

Engine

A 15 amp in-line fuse is incorporated into the engine wiring harness (Figure 26).

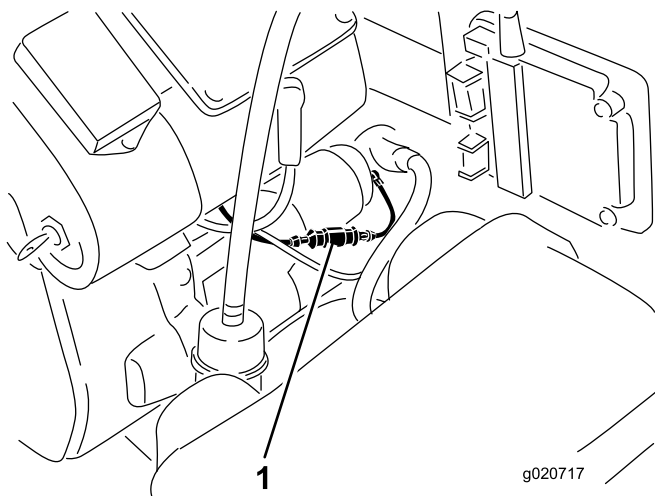


Figure 26

1. Fuse

Receiver

A fuse block is incorporated into the receiver wiring harness. It is located behind the receiver on the right side of the control tower (Figure 27).

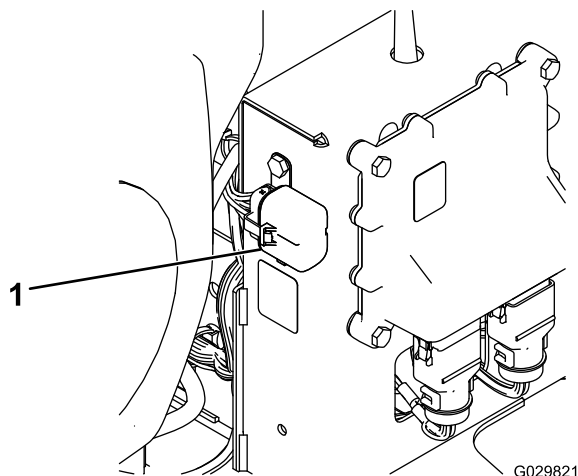


Figure 27

1. Fuse

Storage

1. Turn off the engine, remove the spark plug wire, and remove the key from the ignition.
2. Remove grass clippings, dirt, and grime from the external parts of the entire machine, especially the engine. Clean dirt and chaff from the outside of the engine's cylinder head fins and blower housing.

Important: You can wash the machine with mild detergent and water. Do not pressure-wash the machine. Avoid excessive use of water.

3. Service the air cleaner; refer to [Servicing the Air Cleaner \(page 18\)](#).
4. Change the crankcase oil; refer to [Servicing the Engine Oil \(page 19\)](#).
5. Check the tire pressure; refer to [Checking the Tire Pressure \(page 13\)](#).
6. Prepare the machine for storage when non-use occurs over 30 days. Prepare machine for storage as follows:
 - A. Add a petroleum based stabilizer/conditioner to fuel in the tank. Follow mixing instructions from stabilizer manufacture. Do not use an alcohol based stabilizer (ethanol or methanol).

Note: A fuel stabilizer/conditioner is most effective when mixed with fresh gasoline and used at all times.

- B. Run the engine to distribute conditioned fuel through the fuel system (5 minutes).
- C. Stop the engine, allow it to cool, and drain the fuel tank; refer to [Servicing the Fuel Tank \(page 22\)](#).
- D. Restart the engine and run it until it stops.
- E. Choke the engine. Start and run the engine until it will not start.
- F. Dispose of fuel properly. Recycle as per local codes.

Important: Do not store stabilizer/conditioned gasoline over 90 days.

7. Remove the spark plug(s) and check its condition; refer to [Servicing the Spark Plugs \(page 21\)](#). With the spark plug(s) removed from the engine, pour 2 tablespoons of engine oil into the spark plug hole. Then use the starter to crank the engine and distribute the oil inside the cylinder. Install the spark plug(s). Do not install the wire on the spark plug(s).
8. Check and tighten all bolts, nuts, and screws. Repair or replace any part that is damaged or defective.
9. Paint all scratched or bare metal surfaces. Paint is available from your Authorized Service Dealer.
10. Store the machine in a clean, dry garage or storage area. Remove the key from the ignition switch and keep it

out of reach of children or other unauthorized users. Cover the machine to protect it and keep it clean.

Waste Disposal

Engine oil, engine and remote control batteries are pollutants to the environment. Dispose of these according to your state and local regulations.

Notes:

International Distributor List

Distributor:	Country:	Phone Number:	Distributor:	Country:	Phone Number:
Agrolanc Kft	Hungary	36 27 539 640	Maquiver S.A.	Colombia	57 1 236 4079
Balama Prima Engineering Equip.	Hong Kong	852 2155 2163	Maruyama Mfg. Co. Inc.	Japan	81 3 3252 2285
B-Ray Corporation	Korea	82 32 551 2076	Mountfield a.s.	Czech Republic	420 255 704 220
Casco Sales Company	Puerto Rico	787 788 8383	Mountfield a.s.	Slovakia	420 255 704 220
Ceres S.A.	Costa Rica	506 239 1138	Munditol S.A.	Argentina	54 11 4 821 9999
CSSC Turf Equipment (pvt) Ltd.	Sri Lanka	94 11 2746100	Norma Garden	Russia	7 495 411 61 20
Cyril Johnston & Co.	Northern Ireland	44 2890 813 121	Oslinger Turf Equipment SA	Ecuador	593 4 239 6970
Cyril Johnston & Co.	Republic of Ireland	44 2890 813 121	Oy Hako Ground and Garden Ab	Finland	358 987 00733
Equiver	Mexico	52 55 539 95444	Parkland Products Ltd.	New Zealand	64 3 34 93760
Femco S.A.	Guatemala	502 442 3277	Perfetto	Poland	48 61 8 208 416
ForGarder OU	Estonia	372 384 6060	Pratoverde SRL.	Italy	39 049 9128 128
G.Y.K. Company Ltd.	Japan	81 726 325 861	Prochaska & Cie	Austria	43 1 278 5100
Geomechaniki of Athens	Greece	30 10 935 0054	RT Cohen 2004 Ltd.	Israel	972 986 17979
Golf international Turizm	Turkey	90 216 336 5993	Riversa	Spain	34 9 52 83 7500
Guandong Golden Star	China	86 20 876 51338	Lely Turfcare	Denmark	45 66 109 200
Hako Ground and Garden	Sweden	46 35 10 0000	Solvart S.A.S.	France	33 1 30 81 77 00
Hako Ground and Garden	Norway	47 22 90 7760	Spypros Stavrinides Limited	Cyprus	357 22 434131
Hayter Limited (U.K.)	United Kingdom	44 1279 723 444	Surge Systems India Limited	India	91 1 292299901
Hydroturf Int. Co Dubai	United Arab Emirates	97 14 347 9479	T-Markt Logistics Ltd.	Hungary	36 26 525 500
Hydroturf Egypt LLC	Egypt	202 519 4308	Toro Australia	Australia	61 3 9580 7355
Irrimac	Portugal	351 21 238 8260	Toro Europe NV	Belgium	32 14 562 960
Irrigation Products Int'l Pvt Ltd.	India	0091 44 2449 4387	Valtech	Morocco	212 5 3766 3636
Jean Heybroek b.v.	Netherlands	31 30 639 4611	Victus Emak	Poland	48 61 823 8369

European Privacy Notice

The Information Toro Collects

Toro Warranty Company (Toro) respects your privacy. In order to process your warranty claim and contact you in the event of a product recall, we ask you to share certain personal information with us, either directly or through your local Toro company or dealer.

The Toro warranty system is hosted on servers located within the United States where privacy law may not provide the same protection as applies in your country.

BY SHARING YOUR PERSONAL INFORMATION WITH US, YOU ARE CONSENTING TO THE PROCESSING OF YOUR PERSONAL INFORMATION AS DESCRIBED IN THIS PRIVACY NOTICE.

The Way Toro Uses Information

Toro may use your personal information to process warranty claims, to contact you in the event of a product recall and for any other purpose which we tell you about. Toro may share your information with Toro's affiliates, dealers or other business partners in connection with any of these activities. We will not sell your personal information to any other company. We reserve the right to disclose personal information in order to comply with applicable laws and with requests by the appropriate authorities, to operate our systems properly or for our own protection or that of other users.

Retention of your Personal Information

We will keep your personal information as long as we need it for the purposes for which it was originally collected or for other legitimate purposes (such as regulatory compliance), or as required by applicable law.

Toro's Commitment to Security of Your Personal Information

We take reasonable precautions in order to protect the security of your personal information. We also take steps to maintain the accuracy and current status of personal information.

Access and Correction of your Personal Information

If you would like to review or correct your personal information, please contact us by email at legal@toro.com.

Australian Consumer Law

Australian customers will find details relating to the Australian Consumer Law either inside the box or at your local Toro Dealer.



The Toro Total Coverage Guarantee

A Limited Warranty

Conditions and Products Covered

The Toro Company and its affiliate, Toro Warranty Company, pursuant to an agreement between them, jointly warrant your Toro Commercial product ("Product") to be free from defects in materials or workmanship for two years or 1500 operational hours*, whichever occurs first. This warranty is applicable to all products with the exception of Aerators (refer to separate warranty statements for these products). Where a warrantable condition exists, we will repair the Product at no cost to you including diagnostics, labor, parts, and transportation. This warranty begins on the date the Product is delivered to the original retail purchaser.

* Product equipped with an hour meter.

Instructions for Obtaining Warranty Service

You are responsible for notifying the Commercial Products Distributor or Authorized Commercial Products Dealer from whom you purchased the Product as soon as you believe a warrantable condition exists. If you need help locating a Commercial Products Distributor or Authorized Dealer, or if you have questions regarding your warranty rights or responsibilities, you may contact us at:

Toro Commercial Products Service Department
Toro Warranty Company
8111 Lyndale Avenue South
Bloomington, MN 55420-1196

952-888-8801 or 800-952-2740
E-mail: commercial.warranty@toro.com

Owner Responsibilities

As the Product owner, you are responsible for required maintenance and adjustments stated in your *Operator's Manual*. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim.

Items and Conditions Not Covered

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. This warranty does not cover the following:

- Product failures which result from the use of non-Toro replacement parts, or from installation and use of add-on, or modified non-Toro branded accessories and products. A separate warranty may be provided by the manufacturer of these items.
- Product failures which result from failure to perform recommended maintenance and/or adjustments. Failure to properly maintain your Toro product per the Recommended Maintenance listed in the *Operator's Manual* can result in claims for warranty being denied.
- Product failures which result from operating the Product in an abusive, negligent, or reckless manner.
- Parts subject to consumption through use unless found to be defective. Examples of parts which are consumed, or used up, during normal Product operation include, but are not limited to, brake pads and linings, clutch linings, blades, reels, rollers and bearings (sealed or greasable), bed knives, spark plugs, castor wheels and bearings, tires, filters, belts, and certain sprayer components such as diaphragms, nozzles, and check valves, etc.
- Failures caused by outside influence. Conditions considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved fuels, coolants, lubricants, additives, fertilizers, water, or chemicals, etc.
- Failure or performance issues due to the use of fuels (e.g. gasoline, diesel, or biodiesel) that do not conform to their respective industry standards.

- Normal noise, vibration, wear and tear, and deterioration.
- Normal "wear and tear" includes, but is not limited to, damage to seats due to wear or abrasion, worn painted surfaces, scratched decals or windows, etc.

Parts

Parts scheduled for replacement as required maintenance are warranted for the period of time up to the scheduled replacement time for that part. Parts replaced under this warranty are covered for the duration of the original product warranty and become the property of Toro. Toro will make the final decision whether to repair any existing part or assembly or replace it. Toro may use remanufactured parts for warranty repairs.

Deep Cycle and Lithium-Ion Battery Warranty:

Deep cycle and Lithium-Ion batteries have a specified total number of kilowatt-hours they can deliver during their lifetime. Operating, recharging, and maintenance techniques can extend or reduce total battery life. As the batteries in this product are consumed, the amount of useful work between charging intervals will slowly decrease until the battery is completely worn out. Replacement of worn out batteries, due to normal consumption, is the responsibility of the product owner. Battery replacement may be required during the normal product warranty period at owner's expense. Note: (Lithium-Ion battery only): A Lithium-Ion battery has a part only prorated warranty beginning year 3 through year 5 based on the time in service and kilowatt hours used. Refer to the *Operator's Manual* for additional information.

Maintenance is at Owner's Expense

Engine tune-up, lubrication, cleaning and polishing, replacement of filters, coolant, and completing recommended maintenance are some of the normal services Toro products require that are at the owner's expense.

General Conditions

Repair by an Authorized Toro Distributor or Dealer is your sole remedy under this warranty.

Neither The Toro Company nor Toro Warranty Company is liable for indirect, incidental or consequential damages in connection with the use of the Toro Products covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty. Except for the Emissions warranty referenced below, if applicable, there is no other express warranty. All implied warranties of merchantability and fitness for use are limited to the duration of this express warranty.

Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Note regarding engine warranty:

The Emissions Control System on your Product may be covered by a separate warranty meeting requirements established by the U.S. Environmental Protection Agency (EPA) and/or the California Air Resources Board (CARB). The hour limitations set forth above do not apply to the Emissions Control System Warranty. Refer to the Engine Emission Control Warranty Statement supplied with your product or contained in the engine manufacturer's documentation for details.

Countries Other than the United States or Canada

Customers who have purchased Toro products exported from the United States or Canada should contact their Toro Distributor (Dealer) to obtain guarantee policies for your country, province, or state. If for any reason you are dissatisfied with your Distributor's service or have difficulty obtaining guarantee information, contact the Toro importer.